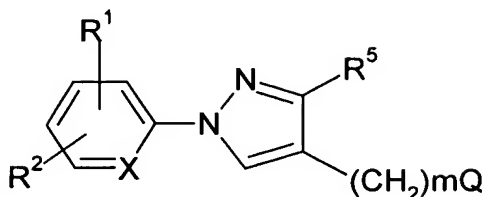


Patent Claims

1. Compounds of the formula I



10 in which

R^1, R^2 , independently of one another, denotes H, A, Hal, $(CH_2)_n$ Het, $(CH_2)_n$ Ar, cycloalkyl having 3 to 7 C atoms, CF_3 , NO_2 , CN, $C(NH)NOH$ or OCF_3 , OH, OA, NH_2 , NHA, NA_2 ,

15 Q denotes NR^3R^4 or Het,

R^3, R^4 denotes H, $(CH_2)_n$ Het, $(CH_2)_n$ Ar, A, cycloalkyl having 3 to 7 C atoms or CF_3 ,

20 R^5 denotes A, Ar or Het

A denotes straight-chain or branched alkyl or alkoxy having 1 to 10 C atoms, alkenyl or alkoxyalkyl having 2 to 10 C atoms,

25 Het denotes an organic heteroatom-containing radical, in particular a saturated, unsaturated or aromatic mono- or bicyclic heterocyclic or linear or branched organic radical containing one or more hetero atoms which is unsubstituted or mono- or polysubstituted by A, cycloalkyl having 3 to 7 C atoms, OH, OA, NH_2 , NHA, NA_2 , NO_2 , CN and/or Hal,

30 35 Ar denotes an aromatic organic radical, in particular a phenyl radical which is unsubstituted or mono- or polysubstituted

by A and/or Hal, OR⁵, OOCR⁵, COOR⁵, CON(R⁵)₂, CN, NO₂, NH₂, NHCOR⁵, CF₃, SO₂CH₃ or a ring-containing group -OCH₂O-, -OC(CH₃)₂O-, -OCH₂CH₂O-,

5 n denotes 0, 1, 2, 3, 4 or 5

 m denotes 1, 2 or 3

 Hal denotes F, Cl, Br or I

10

 and

 denotes N or CH,

15

 and salts and solvates, enantiomers, racemates thereof and other mixtures of the enantiomers, in particular physiologically tolerated salts and solvates thereof.

20

2. Compounds of the formula I according to Claim 1, in which R¹ denotes phenyl, 2-, 3- or 4-cyanophenyl, 2-, 3- or 4-fluorophenyl, 2-, 3- or 4-methyl-, ethyl-, n-propyl- or n-butylphenyl, 2,3-, 2,4-, 2,5-, 2,6-, 3,4-, 3,5- or 3,6-difluoro-, dichloro- or dicyanophenyl, 3,4,5-trifluorophenyl, 3,4,5-trimethoxy- or triethoxyphenyl, thiophen-2-yl or thiophen-3-yl.

25

3. Compounds of the formula I according to one or more of the preceding claims, in which R³ denotes H.

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4. Compounds of the formula I according to one or more of the preceding claims, in which R⁴ denotes H.

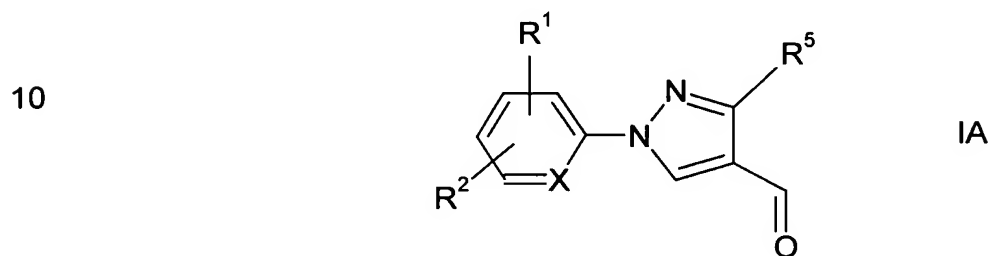
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5. Compounds of the formula I according to one or more of the preceding claims, in which R² denotes phenyl, 2-, 3- or 4-cyanophenyl, 2-, 3- or 4-fluorophenyl, 2-, 3- or 4-methyl-, ethyl-, n-propyl- or n-butylphenyl, 2,3-, 2,4-, 2,5-, 2,6-difluoro- or dicyanophenyl, thiophen-2-yl or thiophen-3-yl, 2-, 3- or 4-pyridyl, 2-, 4- or 5-oxazolyl, 2-,

4- or 5-thiazolyl, quinolinyl, isoquinolinyl, 2- or 4-pyridazyl, 2-, 4- or 5-pyrimidyl, 2- or 3-pyrazinyl.

5 6. Compounds of the formula I according to one or more of the preceding claims, in which X has the meaning N.

7. Compounds of the formula IA:

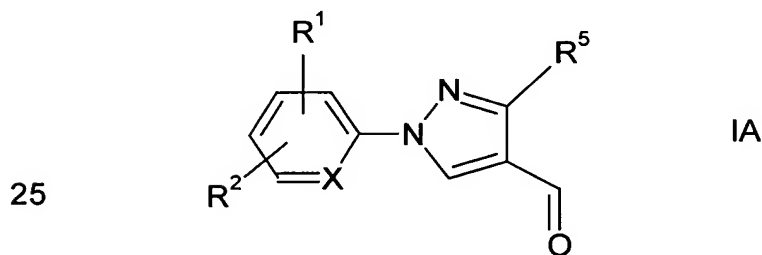


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in which

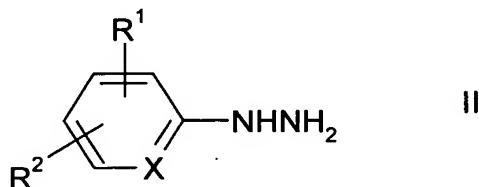
R^1 , R^2 , R^5 and X have the meanings indicated in Claim 1.

20 8. Process for the preparation of compounds of the formula IA



in which R^1 , R^2 , R^5 and X have the meaning indicated in Claim 1 and salts and solvates thereof, which is characterised in that a compound of the formula II

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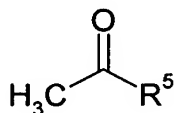


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or acid-addition salts thereof

in which

R^1 , R^2 and X have the meanings indicated in Claim 1,
is reacted with a compound of the formula III



III

in which

R^5 has the meaning indicated in Claim 1,

and/or in that a basic compound of the formula IA is converted into
one of its salts by treatment with an acid.

- 10
9. Compounds of the formula I according to one or more of Claims 1 to 6 and physiologically acceptable salts and solvates thereof as medicaments.
- 15
10. Use of the compounds of the formula I according to one or more of Claims 1 to 6 , and salts and solvates thereof, for the preparation of a medicament for the treatment and prophylaxis of diseases which can be influenced by the binding of the compounds of the formula I to 5-HT receptors.
- 20
11. Use of compounds of the formula I according to one or more of Claims 1 to 6 and/or physiologically acceptable salts and solvates thereof for the preparation of a medicament having a 5-HT receptor-antagonistic action.
- 25
12. Use of compounds of the formula I according to one or more of Claims 1 to 6 and/or physiologically acceptable salts and solvates thereof for the preparation of a medicament having a 5-HT_{2A} receptor-antagonistic action.
- 30
13. Pharmaceutical composition characterised by a content of at least one compound of the formula I according to one or more of Claims 1 to 6 and/or one of its physiologically acceptable salts and/or one of its solvates.
- 35

14. Process for the preparation of pharmaceutical compositions, characterised in that a compound of the formula I according to Claim 1 and/or one of its physiologically acceptable salts and/or one of its solvates is converted into a suitable dosage form together with at least one solid, liquid or semi-liquid excipient or adjuvant.

15. Use of compounds of the formula according to one or more of Claims 1 to 6 and/or physiologically acceptable salts or solvates thereof for the preparation of a medicament for the prophylaxis and/or treatment of psychoses, neurological disorders, amyotrophic lateral sclerosis, eating disorders, such as bulimia, anorexia nervosa, of premenstrual syndrome and/or for positively influencing obsessive-compulsive disorder (OCD).

16. Compounds of the formula I in which Het denotes one of the following radicals:

